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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,262	06/20/2003	Thomas W. Lanni	P 302109	7547
7	10/06/2004	EXAMINER		
Eric S. Chen		VU, BAO Q		
PILLSBURY V Suite 2800	WINTHROP LLP	ART UNIT	PAPER NUMBER	
725 South Figu	ieroa	2838		
Los Angeles,	CA 90017	DATE MAILED: 10/06/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Ap	plication No.	Applicant(s)					
Office Action Summary		10)/600,262	LANNI, THOMAS W	<i>I</i> .				
		Ex	aminer	Art Unit					
			o Q. Vu	2838					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE I - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN asions of time may be available under the provision: SIX (6) MONTHS from the mailing date of this com- period for reply specified above is less than thirty (i period for reply is specified above, the maximum s re to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). munication. 30) days, a reply withi tatutory period will ap y will, by statute, caus	In no event, however, may a reply be in the statutory minimum of thirty (30) or ply and will expire SIX (6) MONTHS fr e the application to become ABANDO	timely filed days will be considered timely. om the mailing date of this com NED (35 U.S.C. § 133).	munication.				
Status				;					
1)	Responsive to communication(s) fil	ed on							
2a)□	This action is FINAL.	2b)⊠ This act	on is non-final.	:					
3)[Since this application is in condition			:	merits is				
	closed in accordance with the pract	tice under Ex pa	arte Quayle, 1935 C.D. 11,	453 O.G. 213.					
Disposition of Claims									
4)🖂	Claim(s) 1-56 is/are pending in the	application.							
	4a) Of the above claim(s) is/s	are withdrawn f	rom consideration.	:					
5)□	5) Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1-56</u> is/are rejected.								
7)	Claim(s) is/are objected to.			•					
8)[]	Claim(s) are subject to restri	iction and/or ele	ection requirement.		· :				
Applicat	ion Papers								
9)□	The specification is objected to by the	ne Examiner.			:				
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority (ınder 35 U.S.C. § 119								
12)□	Acknowledgment is made of a claim	n for foreian pri	ority under 35 U.S.C. § 119	(a)-(d) or (f).					
	☐ All b)☐ Some * c)☐ None of:				:				
	1.☐ Certified copies of the priority	y documents ha	ive been received.						
	2. Certified copies of the priority	y documents ha	ive been received in Applic	ation No					
	3. Copies of the certified copies	of the priority	documents have been rece	eived in this National S	tage				
	application from the Internati	onal Bureau (P	CT Rule 17.2(a)).		: :				
* (See the attached detailed Office acti	on for a list of t	ne certified copies not rece	ived.					
					:				
• •					,				
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)									
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.									
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-15) Other:									
rape	:: 140(5)/1VIaii Date		رد المارة		:				

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-20, 37-41, and 47-51 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Macdonald et al. (USP 6,650,560). MacDonald (see all figures) discloses a plurality of input voltages (12 and 14, figure 1A), a transformer (T1, figure 2A), a buck regulator (28, figure 1A), cables and connectors (figure 1B), resistance is inherent in all connectors, voltage comparison circuit/ voltage programming circuit, (See figure 2B, Vsense, to comparator IC4A) current comparison circuit/current programming circuit (see figure 2B, Isense, to comparator IC4-B), this feedback is used to control the switch (Q4) and provide the driving signal.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 21-36, 42-46, 52-56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Macdonald et al. (USP 6,650,560) in view of Riggio et al. (USP 6,504,423). MacDonald discloses the claimed invention (se above paragraphs) except for having a DC input supplied to the center tap of the transformer. Riggio discloses that it is known in the art to provide a DC input supplied to the center tap of the transformer for purpose providing galvanic isolation and minimal voltage overshoot in the secondary and thus minimizing the filtering requirements. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the DC input supplied to the center tap of the transformer of Riggio with the dual input power supply of MacDonald, in order to have a highly efficient converter for purpose providing galvanic isolation and minimal voltage overshoot in the secondary and thereby minimizing the filtering requirements.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao Q. Vu whose telephone number is (571) 272-2088. The examiner can normally be reached on Monday-Fridays, 8:00AM- 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael S. Sherry can be reached on (571) 272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/600,262 Page 4

Art Unit: 2838

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bao Q. Vu Primary Examir

Primary Examiner Art Unit 2838

September 30, 2004